

Applicant : Rainer Minixhofer  
Serial No. : Not Yet Assigned  
Filed : Herewith  
Page : 2 of 11

Attorney's Docket No.: 14603-022US1  
Client Ref. No.: P2003,0796 US N

AMENDMENTS TO THE SPECIFICATION:

Please amend the title on page 1, line 1, as follows:

~~Title:~~ Radiation-detecting optoelectronic component[[.]]

Please delete the word "Specification:" at page 1, line 3.

Please add the following centered heading on page 1, line 4:

TECHNICAL FIELD

Please amend the paragraph on page 1, lines 5, as follows:

~~The invention relates to~~ This patent application describes an optoelectronic component,  
~~according to the preamble of Claim 1;~~ a method of fabricating such a component, [[;]] and use of  
a zone plate in such a component.

Please add the following centered heading on page 1, line 8:

BACKGROUND

Please add the following centered heading on page 3, line 16:

SUMMARY

Please amend the paragraph on page 3, lines 17-22, as follows:

~~An object (underlying problem) of the present invention is to devise an~~ An improved radiation-detecting optoelectronic component which is distinguished by improved sensitivity and the possibility of wavelength-selective radiation detection is disclosed. Further, ~~it is an object of the invention to devise~~ a fabrication process for such an optoelectronic component is disclosed.

Please delete the paragraph on page 3, line 24 to page 4, line, 4 which begins with "These objects are achieved according" in its entirety.

Please amend the paragraph on page 7, lines 13 to 15, as follows:

~~The invention will be described in more detail hereinbelow with reference to exemplary embodiments, in connection with~~ Embodiments of the optoelectronic component are described below with reference to ~~the following~~ Figs. 1 and 2.

Please add the following centered heading on page 7, line 16:

#### DESCRIPTION OF THE DRAWINGS

Please amend the paragraph on page 7, lines 17 to 18, as follows:

Fig. 1 is a schematic cross section though an exemplary embodiment of an ~~inventive~~ optoelectronic component, ~~;- and~~

Please add the following centered heading on page 7, line 22:

### DETAILED DESCRIPTION

Please amend the paragraph on page 9, lines 1 to 9, as follows:

For example, the semiconductor chip 2 has a radiation-sensitive zone 7 in focal plane 11, for red light; and disposed behind this in the direction of the incident light 17 a second radiation-sensitive zone 8 in focal plane 12, for green light; and disposed behind this a third radiation-sensitive zone 9 in focal plane 13, for blue light. Thus in this example a radiation detector for the three primary colors is thus realized. Other numbers of radiation-detecting zones, and other choices of wavelength ranges to be detected, are possible ~~within the scope of the invention.~~

Please replace the Abstract on page 20 with the following new Abstract:

An optoelectronic component that includes a semiconductor device and an optical component is disclosed. The semiconductor device includes at least one radiation-sensitive zone configured to detect electromagnetic radiation. The optical element for focusing is configured to focus the electromagnetic radiation in the at least one radiation-sensitive zone. The optical element includes a diffractive element having structures on the order of magnitude of the wavelength of the electromagnetic radiation.

Please delete the phrase "(Fig. 1)" on page 20, line 13.